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IS 10722-3 (1983): Graphical symbols for kinematic diagrams Part 3 [PGD 24: Drawings]



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Indian Standard

GRAPHICAL SYMBOLS FOR KINEMATIC DIAGRAMS, PART 3

(ISO Title : Kinematic Diagrams — Graphical Symbols — Part 3)

National Foreword

This Indian Standard (Part 3), which is identical with ISO 3952/3-1979 'Kinematic diagrams — Graphical symbols — Part 3', issued by the International Organization for Standardization (ISO), was adopted by the Indian Standards Institution on the recommendations of the Drawings Sectional Committee and approved by the Engineering Division Council.

Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.

Additional Information

This standard is the national implementation of ISO 3952/3-1979, as such only the English text has been reproduced. If the French and Russian texts are required, reference should be made to the original ISO publication.

This Indian Standard includes a number of parts, each identical with the corresponding part of the International Standard ISO 3952, as follows:

Part 1 (ISO 3952/1)	Motion of links of mechanisms Kinematic pairs Links and connection of their components N-bar linkages and their components
Part 2 (ISO 3952/2)	Friction and gear mechanisms Cam mechanisms
Part 3 (ISO 3952/3)	Geneva and ratchet mechanisms Couplings and breaks

Adopted 16 August 1983	© May 1984, ISI	
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IS : 10722 (Part 3) - 1983 ISO 3952/3 - 1979

Introduction

The purpose of this International Standard is the creation of a system of graphical symbols for kinematic diagrams. The creation of such a system will simplify the preparation of kinematic diagrams and will facilitate the execution and understanding of such diagrams by specialists of different countries.

Scope and Field of Application

This International Standard establishes the graphical symbols for elements of kinematic diagrams of products in all branches of industry. The symbols established by this International Standard are to be used on diagrams in technical documentation, as well as in technical and educational literature.

This International Standard is being published in three parts, as follows:

Part 1

1 Motion of links of mechanisms

- 2 Kinematic pairs
- 3 Links and connections of their components
- 4 Linkage of bars and their links

Part 2

5 Friction and gear mechanisms

6 Cam mechanisms

Part 3

- 7 Geneva and ratchet mechanisms
- 8 Couplings, clutches and brakes

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No.	Designation	Definition	Basic symbol	Permissible symbol	Notes
.1	Geneva mechanism — General symbol				
	a) with external engagement				
	b) with internal engagement		$\checkmark \rightarrow$		
.2	Ratchet mechanism with pawl		17-12		
	a) with external engagement				
	b) with internal engagement				
	c) with rack engagement				

7 Geneva and ratchet mechanisms

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8 Couplings, clutches and brakes

No.	Designation	Definition	Basic symbol	Permissible symbol	Notes
8.1	Couplings—General symbol (without statement of type)	A drive unit inten- ded for the coupling of shafts and con- sisting of driving and driven parts and connecting elements			
8.1.1	Fixed couplings	Couplings that do not permit shaft displacement			
8.1.2	Compensating couplings	Couplings permitt- ing the relative displacement of driving and driven parts			
8.1.3	Elastic couplings	Coupling with flexi- ble connecting ele- ment			
8.2	Controllable clutches	Clutches with special element providing the clutch control			
8.2.1	Gear clutches	Clutch, engaged when driving and driven parts have no different angular speeds and not per- mitting the devia- tion of angular speeds of driving and driven parts			
	a) one-way				
	b) two-way				

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IS: 10722 (Part 3) - 1983 ISO 3952/3 - 1979

No.	Designation	Definition	Basic symbol	Permissible symbol	Notes	ISO
8.2.2	Friction (asynchronous) clutch	Clutch, engaged when driving and driven parts have different angular speeds, and trans- mitting the motion by friction				10/ZZ (Fart 3 3952/3 - 1979
	a) one-way					- 1983
	b) two-way					
8.2.3	Hydraulic clutches — General symbol					
8.2.4	Electrical clutches					*
8.3	Automatic (self-acting) clutches — General symbol	Clutches in which engagement and disengagement occur automatically as a result of change in set running condi- tions	╾⋲┥┝⋺			
8.3.1	Centrifugal friction clutch	Clutch, the connect- ing element of which transmits the motion by centrifugal forces				
8.3.2	Overrunning clutch	Clutch which per- mits transfer of motion in one direction only				

8.3.3	Slip clutch	Clutch automatically disengaging or limit- ing a torque when the applied torque exceeds the set value		
	a) with destructible element (such as a shear pin)			
	b) with non-destructible ele- ment			
8.4	Brakes — General symbol			Brake surface is not specified

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NOTES TO 8.2, 8.3 AND 8.4

If it is necessary to indicate the type of control operation, the following qualifying symbols may be applied:

- $\mathbf{M} \mathrm{mechanical}$
- H hydraulic
- P pneumatic
- E electrical (for example electromagnetic)

Example : One-way friction clutch with pneumatic switch actuation.

